

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU 99/00195

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
Int Cl <sup>6</sup> : C12N 15/11		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC (WPAT - WORLD PATENTS INDEX) AND CHEMICAL ABSTRACTS. KEYWORDS BELOW.		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched MEDLINE. KEYWORDS BELOW.		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, Medline, Chemical Abstracts. Keywords: homology, transcriptional, posttranscriptional, RNA mediated, epigenetic, silencing, cosuppression, virus resistance		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	Cell, 96(3), 5 February 1999, Grant, "Dissecting the Mechanisms of Posttranscriptional Gene Silencing: Divide and Conquer", pages 303-6	1-49,57
X Y	Developmental Genetics, 22(1), 1998, Que et al., "Homology-Based Control of Gene Expression Patterns in Petunia Flowers", pages 100-9	<u>1-16,23,24,35,36,47-49,57</u> 17-22,25-34,37-49,57
X Y	Plant Molecular Biology, 22(6), 1993, Assaad et al., "Epigenetic repeat-induced gene silencing (RIGS) in <i>Arabidopsis</i> ", pages 1067-85	<u>1-16,23,24,35,36,47-49,57</u> 17-22,25-34,37-49,57
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>		
Date of the actual completion of the international search 30 April 1999		Date of mailing of the international search report <b>10 MAY 1999</b>
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929		Authorized officer  <b>CHRISTOPHER LUTON</b> Telephone No.: (02) 6283 2256

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	The Plant Journal, 15(6), 1998, Hamilton et al., "A transgene with repeated DNA causes high frequency, post-transcriptional suppression of ACC-oxidase gene expression in tomato", pages 737-46	1-49,57
X	Annals of Botany, 79(1), 1997, Stam et al., "The Silence of Genes in Transgenic Plants", pages 3-12	1-49,57
<u>X</u> Y	Genetics, 147(3), 1997, Dorer and Henikoff, "Transgene Repeat Arrays Interact With Distant Heterochromatin and Cause Silencing in <i>cis</i> and <i>trans</i> ", pages 1181-90	<u>1-16,23,24,35,36,47-49,57</u> 17-22,25-34,37-49,57
<u>X</u> Y	Cell, 77(7), 1994, Dorer and Henikoff, "Expansions of Transgene Repeats Cause Heterochromatin Formation and Gene Silencing in <i>Drosophila</i> ", pages 993-1002	<u>1-16,23,24,35,36,47-49,57</u> 17-22,25-34,37-49,57
X	Plant Cell, Volume 8, 1996, Sijen et al., "RNA-Mediated Virus Resistance: Role of Repeated Transgenes and Delineation of Target Regions", pages 2277-94	1-49,57
<u>P,X</u> P,Y	WO, 98/53083 (ZENECA LIMITED) 26 November 1998	<u>1-16,23,24,35,36,47-49,57</u> 17-22,25-34,37-49,57

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report	Patent Family Member
WO 98/53083	AU 74442/98
	GB 9710475

END OF ANNEX